UNITED STATES MARINE CORPS
MARINE CORPS SYSTEMS COMMAND
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MARCORSYSCOMO 5230.3
C4ISR
27 Apr 01

MARINE CORPS SYSTEMS COMMAND ORDER 5230.3

From: Commander
To: Distribution List

Subj: MARINE AIR GROUND TASK FORCE (MAGTF) COMMAND, CONTROL, COMMUNICATIONS, COMPUTERS, INTELLIGENCE, SURVEILLANCE, AND RECONNAISSANCE (C4ISR) INTEGRATED PACKAGE (MIP) PROCESS

Ref: (a) MARCORSYSCOMO 5238.1

Encl: (1) Sample Request for Marine Air Ground Task Force (MAGTF) Integrated Package (MIP) Process Exclusion Waiver

1. Purpose. To establish the MIP Family of Systems (FOS) process as the synchronizing process for all future C4ISR systems acquisitions.

2. Background. Lessons learned since the 1980's all point to the conclusion that a disciplined process must be established to produce a controllable, interoperable FOS, which provides a relevant capability to the operational commander. The Naval Research Advisory Committee (February 1988) determined that a successful FOS approach must address four guiding principles:

a. Freeze the design periodically to control any potential requirements creep.

b. Identify the strong interdependence among requirements, performance, and cost.

c. Include system intra/interoperability as a primary key performance parameter for command and control systems.

d. Utilize modeling and simulation techniques and a strong configuration control mechanism to support the process.

The MAGTF Configuration Control Board (MCCB), as described in the MAGTF Configuration Management Plan, controls the MIP process. The MIP process accomplishes these goals and guides the various systems developers to a single architecture solution. The MIP process initially provides a periodic design

freeze based on a set of clearly defined interoperability objectives for that particular MIP. Additionally, the objectives and description of each MIP are contained in the MIP Strategy and Guidance Document (S&G), and each MIP will be focused on a subset of interoperability requirements. Lastly, the MIP process is a controlled process that includes modeling and simulation as a performance predictor prior to system fielding. The MIP process provides a synchronizing tool to field future C4ISR FOS's for MARCORSYSCOM.

3. MIP. AN MIP is an MCCB-approved FOS that fulfills specified operational capabilities designed to increase interoperability and provides evolutionary improvements to warfighting effectiveness. These systems are interrelated and support specified operational facilities using defined configurations. The MIP will allow the Director for Systems Engineering and Integration (SE&I) to coordinate the efforts of program managers (PM) toward developing and fielding the defined FOS. Eventually, all C4ISR systems will fall under an MIP theme.

a. MIP Process. The MIP process follows the same standard acquisition life cycle process as current individual systems, but it focuses on an FOS. An annual MIP S&G, based on FOS requirements, describes the development plan for all PM's. The MIP S&G will synchronize and focus the efforts of the PM's to achieve FOS capabilities. The MIP process includes architecture definition and verification.

(1) The MIP will delineate which systems, components, applications, and versions of configuration items MARCORSYSCOM will modify, develop, or implement to meet the objectives of the MIP S&G. This will be based on functional descriptions and system specifications of the targeted systems. The MIP will also provide a methodology which will assist individual programs to implement the changes needed to meet the required capabilities.

(2) The Marine Corps Tactical Systems Support Activity (MCTSSA) Systems Integration Environment (SIE) will conduct a verification of the MIP. The MIP verification will include all MIP component systems and their required capabilities. The MIP component systems will be tested and certified for the implementation of joint, Information Technology 21, and security requirements to ensure they function and interoperate as planned. The SIE process will be managed through the Operations

Officer at MCTSSA and the SIE will develop a master schedule, which will include the MIP verification. The results of MCTSSA SIE testing will be documented and provided to the operating forces via the MARCORSYSCOM, SE&I web site.

b. MIP Controlled Documents. The MIP process is supported by five key documents. MIP documents can be found on the SE&I web site and are composed of the following:

(1) MIP S&G. A six-year plan that maps out which FOS capabilities are needed each year.

(2) MIP X Specification Document. A description of required capabilities and solutions for each particular MIP.

(3) MIP X Design Document. Describes how systems within the FOS will be changed to meet the MIP specification and the desired MIP theme capabilities. The design document establishes who is going to fix what with their systems to create the desired MIP FOS results.

(4) MIP X Verification Plan. An interoperability and functionality verification plan which delineates the methodology and priority of what capabilities will be verified for that particular MIP at the MCTSSA SIE.

(5) MIP X Standard Configuration Document. An after action report which will clearly articulate to the operating forces a standard configuration, which will include capabilities and limitations for the FOS associated with a particular MIP.

4. Action. All applicable C4ISR programs identified within the current MIP S&G Document must participate in the MIP process and realign their applicable resources, and schedule to the MIP process of events as required. Identified programs have two years after approval of this Order to complete the realignment of their systems efforts to meet the requirements of the MIP process. New programs must be aligned with the MIP process beginning with the approval of their first Milestone event. Requests for exclusion from the MIP process should be submitted in the format contained in the enclosure and must be accompanied by the appropriate supporting documentation.

5. Applicability. Per the reference, this Order is applicable to MCTSSA and all MARCORSYSCOM PM's with systems that have an

established interoperability requirement to pass C4ISR data from one system to another.

L. P. KREITZER
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SAMPLE REQUEST FOR MARINE AIR GROUND TASK FORCE (MAGTF) INTEGRATED PACKAGE (MIP) PROCESS EXCLUSION WAIVER

5000
Code
Date

From: Program Manager, XXXX
To: Director, Systems Engineering and Integration Division

Subj: EXAMPLE REQUEST FOR MIP EXCLUSION WAIVER FOR THE XXXXX SYSTEM

Ref: (a) MARCORSYSCOMO 5230.3

Encl: (1) Supporting Documentation

1. Per the reference, request that the XXXXX system be excluded from participation in MIP X.

2. XXXXX system requests exclusion from MIP X due to the following reasons:

a. The inclusion of XXXXX system into MIP X at this time would make our program unexecuteable.

b. As documented in the enclosure(s), the inclusion of XXXXX system into MIP X would cause program XXXX to fail the following Critical Operational Requirements (COR) or Key Performance Parameters (KPP) during an operational test.

(1) COR.

(2) KPP.

SIGNATURE

ENCLOSURE (1)